



Isorhamnetin 3-glucuronide Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Isorhamnetin 3-glucuronide

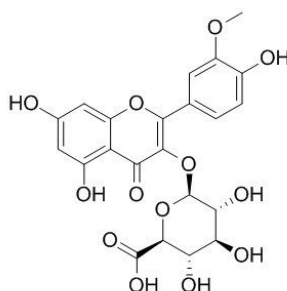
Catalog No.: CFN90568

Cas No.: 36687-76-0

Purity: >=98%

M.F: C₂₂H₂₀O₁₃

M.W: 492.39



Physical Description: Powder

Synonyms: 5,7-Dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-4-oxo-4H-1-benzopyran-3-yl
beta-D-glucopyranosiduronic acid; Isorhamnetin 3-O-beta-glucuronide.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The herbs of *Potentilla discolor* Bge.

[Biological Activity or Inhibitors]

Isorhamnetin - 3 -O -glucuronide exerts anti-inflammatory activity by increasing heme oxygenase-1 (HO-1) expression and by suppressing Jun N-terminal kinase (JNK) and p38 signaling pathways in LPS-challenged RAW264.7 macrophage cells.^[1]

Isorhamnetin-3-glucuronide(1 mg/kg i.v.) can progressively reduce mean blood pressure (MBP), measured in conscious spontaneously hypertensive rats (SHR).^[2]

Isorhamnetin 3-glucuronide can inhibit vascular cell adhesion molecule-1 (VCAM-1) cell surface expression at 2 micromol/L, indicates that it can inhibit the expression of key molecules involved in monocyte recruitment during the early stages of atherosclerosis at physiological concentrations. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- Aqueous 0.2 M LiClO₄ in 0.006 M HClO₄ ,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Jin-Young Park , Song-In Kim , Lee H J, *et al. Drug Develop. Res.*, 2016, 77(3):143-51.

[2]Galindo P, Rodriguezgómez I, Gonzálezmanzano S, *et al. Plos One*, 2012, 7(3):e32673.

[3] Tribolo S, Lodi F, Connor C, *et al. Atherosclerosis*, 2008, 197(1):50-6.

[4] Olennikov D, Kashchenko N, Chirikova N K, *et al. Molecules*, 2014, 20(1):224-48 .

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